

Application No. (if known): 10/534,081

Attorney Docket No.: 66530(46590)

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EM006544080US in an envelope addressed to:

MS Sequence Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on <u>April 10, 2008</u>
Date

Signature

Lynn Marcus

Typed or printed name of person signing Certificate

(617) 239-0100

Registration Number, if applicable

Telephone Number

Note:

Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Response to Notice to Comply with Requirements for Nucleotide or Amino Acid Sequence Disclosure (2 pages)

Submission of "Sequence Listing", Computer Readable Copy, And/Or

Amendment Pertaining Thereto... (5 pages)

Statement to Support Filing & Submission in Accordance withy 37 CFR

1.821-825 (1 page)

Sequence Listing (12 pages)
Disk containing sequence listing
Notice from USPTO (8 pages)

Return postcard

IAP07Rec'd PCT 1 0 APR 2008

Confirmation No.: 8962



Docket No.: 66530(46590)

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kohji Fukatsu et al.

Application No.: 10/534,081

Filed: May 5, 2005 Art Unit: N/A

For: RECEPTOR FUNCTION REGULATOR Examiner: Not Yet Assigned

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUBMISSION OF "SEQUENCE LISTING," COMPUTER READABLE COPY, AND/OR AMENDMENT PERTAINING THERETO FOR BIOTECHNOLOGY INVENTION CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE

(check and complete this item, if applicable)

1. [X] This replies to the Office Letter DATED February 14, 2008.

NOTE: If these papers are filed before the office letter issues, adequate identification of the original papers should be made, e.g., in addition to the name of the inventor and title of invention, the filing date based on the "Express Mail" procedure, the serial number from the return post card or the attorney's docket number added.

[X] A copy of the Office Letter is enclosed.

IDENTIFICATION OF PERSON MAKING STATEMENT

2. I, Gregory B. Butler, Ph.D., Esq.

(type or print name of person signing below)

state the following:

ITEMS BEING SUBMITTED

3. Submitted herewith is/are

(check each item as applicable)

A.	[X]	"Sequence Listing(s)" for the nucleotide and/or amino acid sequence(s) in the application. Each "Sequence Listing" is assigned a separate identifier a required in 37 C.F.R. § 1.821(c) and 37 C.F.R. §§ 1.822 and 1.823.	
B.	[]	An amendment to the description and/or claims, wherein reference is made the sequence by use of the assigned identifier, as required in 37 C.F.R. 1.821(d).	
C.	[X]	A copy of each "Sequence Listing" submitted for this application in compute readable form, in accordance with the requirements of 37 C.F.R. §§ 1.821(and 1.824.	
D.	[] Ple	ease transfer to this application, in accordance with 37 C.F.R. § 1.821(e), the computer readable copy(ies) from applicant's other application identified a follows:	
		puter readable form(s) of applicant's other application corresponds to the application as follows:	ne
Com	puter Re	eadable Form "Sequence Identif	ïer'
(othe	er applic	Alian American Maria and Maria	~ ~ '
, 50.10	л аррис	ation) (this applicati	OH,
•	ID NO:	SEQ ID N	-
•	"If the canother and cor The new		of on
SEQ	"If the canother and con The new computer	SEQ ID Note that the computer readable form of a new application is to be identical with the computer readable form application of the applicant on file in the Office, reference maybe made to the other application application of the intermities of the intermities and the intermities of the other application application shall be accompanied by a letter making such reference to the other application and	of on on. nd
SEQ	"If the canother and cor The new compute	SEQ ID Note that the content of each "Sequence Listing" submitted and each statement that the content of each "Sequence Listing" submitted and each statement that the content of each "Sequence Listing" submitted and each sequence to the content of each "Sequence Listing" submitted and each sequence to the content of each "Sequence Listing" submitted and each sequence to the content of each "Sequence Listing" submitted and each "Sequence Listing" submitted and each sequence to the content of each "Sequence Listing" submitted and each sequence Listing the content of each "Sequence Listing" submitted and each sequence Listing the content of each "Sequence Listing" submitted and each sequence Listing the content of each "Sequence Listing" submitted and each sequence Listing the content of each sequence the conte	of on on. and
SEQ	"If the canother and cor The new compute	omputer readable form of a new application is to be identical with the computer readable form application of the applicant on file in the Office, reference maybe made to the other application application shall be accompanied by a letter making such reference to the other application are readable form, both of which shall be completely identified." 37 C.F.R. § 1.821(e). statement that the content of each "Sequence Listing" submitted and each computer readable copy are the same, as required in 37 C.F.R. § 1.821(g). Because the statement is not made by a person registered to practice before	of on
SEQ	"If the canother and corn The new computer" [] A	omputer readable form of a new application is to be identical with the computer readable form application of the applicant on file in the Office, reference maybe made to the other application of the application of filing a duplicate computer readable form in the new application application shall be accompanied by a letter making such reference to the other application are readable form, both of which shall be completely identified." 37 C.F.R. § 1.821(e). statement that the content of each "Sequence Listing" submitted and each computer readable copy are the same, as required in 37 C.F.R. § 1.821(g). Because the statement is not made by a person registered to practice before the Office, the Statement is verified as required in 37 C.F.R. § 1.821(b).	of on on.

STATEMENT THAT "SEQUENCE LISTING" AND COMPUTER READABLE COPY ARE THE SAME AND/OR THAT PAPERS SUBMITTED INCLUDES NO NEW MATTER

4.	l he	ereby state:				
		(complete applicable item A and/or B)				
	A.	[] Each computer readable form submitted in this application, including those forms requested to be transferred from applicant's other application, is the same as the "Sequence Listing" to which it is indicated to relate.				
	B.	[X] All papers accompanying this submission, or for which a request for transfer from applicants' other application, introduce no new matter.				
		STATUS				
5.	Ар	plicant is				
	[]	a small entity. A statement:				
		[] is attached.				
		[] was already filed.				
	[X]	other than a small entity.				
6.		EXTENSION OF TERM				
NO	TE:	"Extension of Time in Patent Cases (Supplement Amendments) If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.				
		If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of Dec.10, 1985 (1061 O.G. 34-35).				
7.	The	e proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136 ply.				
		(complete (a) or (b) as applicable)				
	(a)	[] Applicant petitions for an extension of time under 37 C.F.R. § 1.136 (fees: 37 C.F.R. § 1.17(a)(1)-(4)) for the total number of months checked below:				

		Extension (months)	Fee for other than small entity		e for <u>all entity</u>	
[one month two months three months four months	\$120.00 \$450.00 \$1,020.00 \$1,590.00	\$ \$	60.00 225.00 510.00 795.00	
			Fee \$		_	
If an a	dditi	onal extension of ti	me is required, please	con	sider this a petition therefor.	
		(che	ck and complete the ne	ext it	tem, if applicable)	
[] An extension for months has already been secured, and the fee paid therefor of \$ is deducted from the total fee due for the total months of extension now requested.						
			Extens	ion	fee due with this request \$	
			OR			
(b) [] Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.						
FEE P	AYN	MENT				
8. []	Atta	ached is a check in	the sum of \$.	
[] Charge Account No the sum of \$ A duplicate of this transmittal is attached.				·		
FEE DEFICIENCY						
9. NOTE:	If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, 1065 O.G. 31-33.					
10. [X] If a	ny additional exten	sion and/or fee is requi	red,	charge Account No. <u>04-1105</u> .	

SIGNATURE(s)

DATE: 4-10-08	Grany B. Sill
	Gregory 8. Butler, Ph.D., Esq. (34,558) Attorney for Applicants EDWARDS ANGELL PALMER &DODGE LLP P.O. Box 55874 Boston, MA 02205
	[] Inventor [] Assignee of complete interest [] Person authorized to sign on behalf of assignee
Tel. No.: (617) 239-0100 Reg. No. 34,558	[X] Practitioner of record[] Filed under Rule 34(a)[] Registration No.[] Other



TENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS Post 150 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/534,081

Kohji Fukatsu

3119 US0P

21874

EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874 BOSTON, MA 02205

INTERNATIONAL APPLICATION NO. PCT/JP03/14139

I.A. FILING DATE

11/06/2003

PRIORITY DATE 11/08/2002

CONFIRMATION NO. 8962 371 FORMALITIES LETTER



Date Mailed: 02/14/2008

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given TWO MONTHS FROM THE DATE OF THIS NOTICE within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

· A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). Refer to attachment or PAIR document dated.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

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For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

FREDERICK SMITH	
Telephone: (703) 308-9140 EXT 210	



21874

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Dex 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NUMBER

P.O. BOX 55874 **BOSTON, MA 02205** FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO/TITLE

10/534,081

EDWARDS ANGELL PALMER & DODGE LLP

Kohji Fukatsu

3119 US0P **CONFIRMATION NO. 8962**

WITHDRAWAL NOTICE

Date Mailed: 02/14/2008

WITHDRAWAL OF PREVIOUSLY SENT NOTICE

The Notice of Abandonment mailed on 09/25/2006 was sent in error and is hereby withdrawn. A corrected Notice is enclosed. The time period for reply runs from the mail date of the corrected Notice. The Office regrets any inconvenience the error may have caused.

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/tsirivongxay/			
		·	-
Office of Initial Patent Examination	n (571) 272-4000	or 1-800-F	PTO-9199



Docket No.: 66530(46590)

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kohji Fukatsu et al.

Application No.: 10/534,081

4,081 Confirmation No.: 8962

Filed: May 5, 2005 Art Unit: N/A

For: RECEPTOR FUNCTION REGULATOR Examiner: Not Yet Assigned

RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATION CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

MS Sequence Commissioner for Patents , P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This is in response to the Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, dated February 14, 2008. Applicants are submitting their response herewith within the two-month response period set to expire on April 14, 2008.

The U.S. Patent and Trademark Office has taken the position that the previous "Sequence Listing" in computer readable form did not comply with the requirements of Section 1.824 for the stated reason that it contained several raw sequence listing errors. Submitted herewith in connection with the above-referenced patent application is a substitute, computer readable copy of the Sequence Listing that corrects the defects noted in the raw sequence listing. No new matter has been added to the substitute Sequence Listing.

Applicants respectfully request the above-referenced patent application be placed upon the files for examination.

Dated: April 10, 2008

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Respectfully submitted,

Gregory B. Butler, Ph.D., Esq. Registration No.: 34,558

EDWARDS ANGELL PALMER & DODGE

LLP

P.O. Box 55874

Boston, Massachusetts 02205

(617) 517-5595

Attorneys/Agents For Applicant



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source

Date Processed by STIC:

10/534,08/

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (httm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building. 401 Dulany Street.
 Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

DATE: 05/13/2005

PATENT APPLICATION: US/10/534,081

TIME: 14:59:46

Input Set : A:\3119 USOP.seq.txt

Output Set: N:\CRF4\05132005\J534081.raw

```
3 <110> APPLICANT: FUKATSU, Kohji
              SASAKI, Shinobu
              HINUMA, Shuji
      5
              ITO, Yasuaki
      6
               SUZUKI, Nobuhiro
      7
              HARADA, Masataka
              YASUMA, Tsuneo
     11 <120> TITLE OF INVENTION: Modulator of Receptor Function
     13 <130> FILE REFERENCE: 3119USOP
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/534,081
C--> 15 <141> CURRENT FILING DATE: 2005-05-05
     15 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/014139
     16 <151> PRIOR FILING DATE: 2003-11-06
                                                                             Dres Not Comply
     18 <150> PRIOR APPLICATION NUMBER: JP 2002-324632
     19 <151> PRIOR FILING DATE: 2002-11-08
                                                                             Corrected Diskette Needed
     21 <150> PRIOR APPLICATION NUMBER: JP 2003-16889
     22 <151> PRIOR FILING DATE: 2003-01-27
     24 <150> PRIOR APPLICATION NUMBER: JP 2003-153986
     25 <151> PRIOR FILING DATE: 2003-05-30
     27 <160> NUMBER OF SEQ ID NOS: 26
ERRORED SEQUENCES
     510 <210> SEQ ID NO: 26
     511 <211> LENGTH > 21
                                    ols explains ource are allowed in a RNA, Fgenetic Sequences in a RNA sequences is ee error explanation on page 2.
     512 <212> TYPE:/RNA
                           Artificial Sequence
     513 <213> ORGANI<del>SM</del>:
     514 <220> FEATURE:
     515 <223> OTHER INFORMATION!
     517 <400> SEQUENCE: 26
E--> 518 nngaacaatc ggtaggctcc g
      ं हत इस्ते shown exist thac
     "Sing Listing Please check (Prifox
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/534,081

DATE: 05/13/2005 TIME: 14:59:47

Input Set : A:\3119 USOP.seq.txt

Output Set: N:\CRF4\05132005\J534081.raw

Use of <220> Feature (NEW RULES):

Sequence (s) _ are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:11,12,21,22

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/534,081

DATE: 05/13/2005 TIME: 14:59:47

Input Set : A:\3119 USOP.seq.txt

Output Set: N:\CRF4\05132005\J534081.raw

Use of n's or Xaa's (NEW KULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:23; N Pos. 20,21 Seq#:24; N Pos. 1,2 Seq#:25; N Pos. 20,21 Seq#:26; N Pos. 1,2 VERIFICATION SUMMARY

PATENT APPLICATION: US/10/534,081

DATE: 05/13/2005 TIME: 14:59:47

Input Set : A:\3119 USOP.seq.txt

Output Set: N:\CRF4\05132005\J534081.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:370 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213> ORGANISM: Artificial Sequence L:370 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:370 L:379 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213> ORGANISM: Artificial Sequence L:379 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:379 L:468 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213> ORGANISM: Artificial Sequence L:468 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:468 L:477 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:22, <213> ORGANISM: Artificial Sequence L:477 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:477 L:488 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23 L:488 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23 L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 L:498.M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:24 L:498 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:24 L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0 L:508 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25 L:508 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25 L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:518 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:26 L:518 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:26 L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0

L:518 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:3